Surname	Othe	er names
Pearson Edexcel Certificate Pearson Edexcel nternational GCSE	Centre Number	Candidate Number
Mathemati	cs A	
Paper 3H		Higher Tier
Paper 3H Thursday 21 May 2015 – N Time: 2 hours	Aorning	Higher Tier Paper Reference 4MA0/3H KMA0/3H

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Without sufficient working, correct answers may be awarded no marks.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Calculators may be used.
 You must NOT write anything on the formulae page.
- Anything you write on the formulae page will gain NO credit.

Information

- The total mark for this paper is 100.
- The marks for each question are shown in brackets
 use this as a guide as to how much time to spend on each question.

Advice

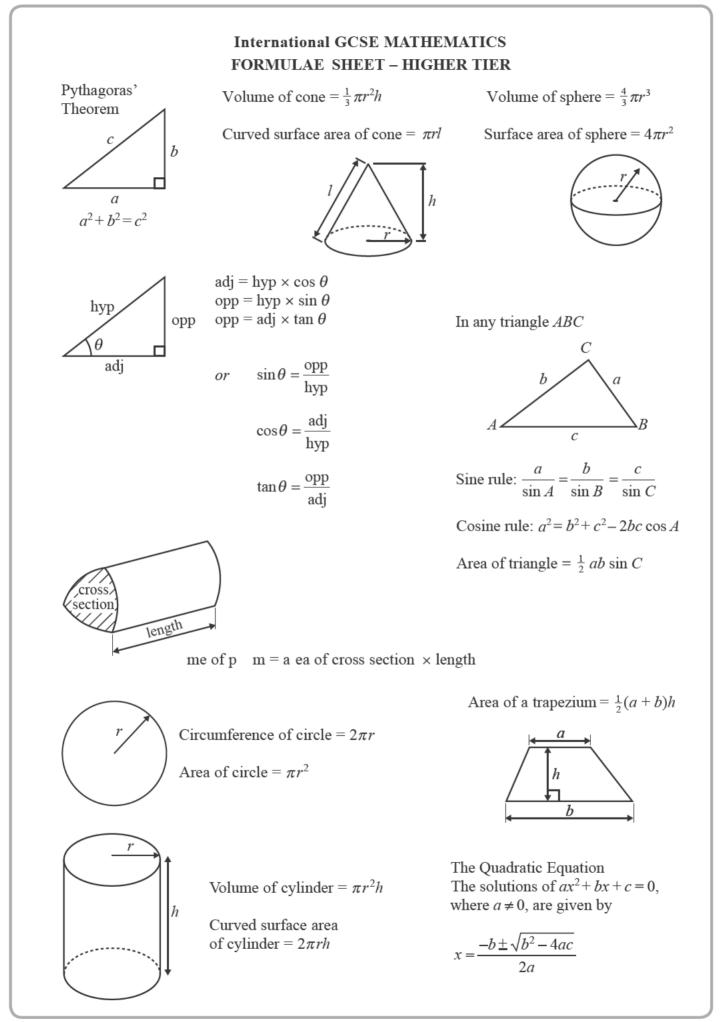
- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.





Turn over 🕨







Answer ALL TWENTY FOUR questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1 The ocean liner Queen Mary 2 is the longest of its type. It has a length of 345 metres.

A scale model is made of the Queen Mary 2 The scale of the model is 1:200

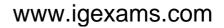
Work out the length of the scale model. Give your answer in centimetres.

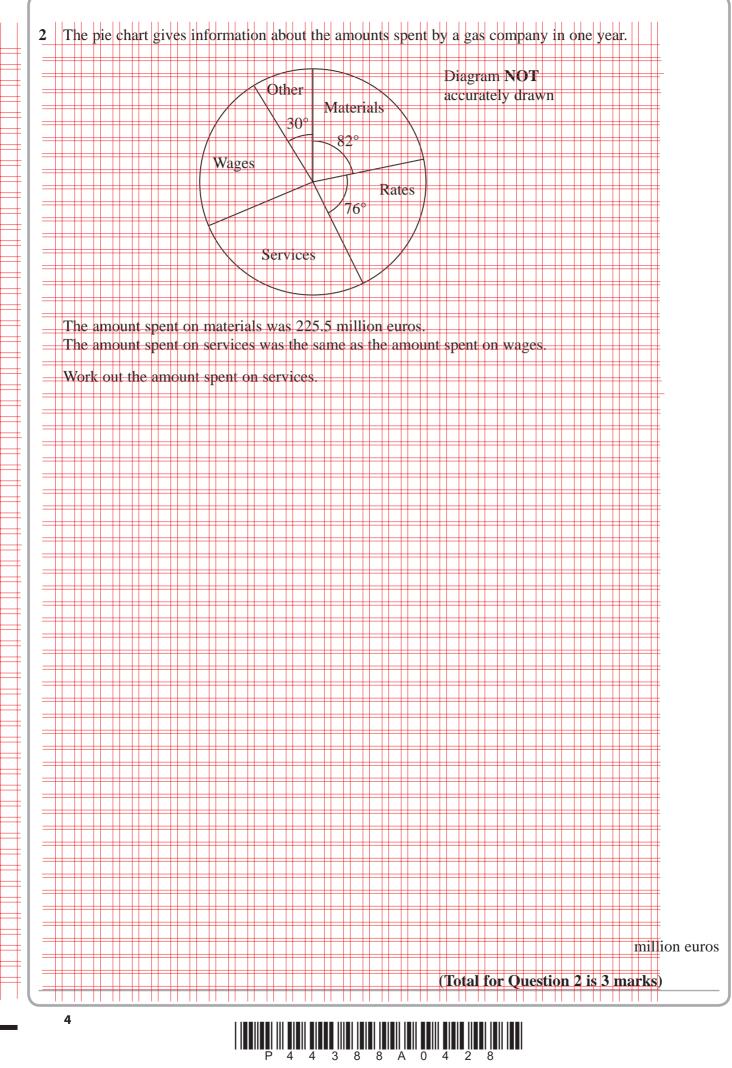


cm

(Total for Question 1 is 3 marks)

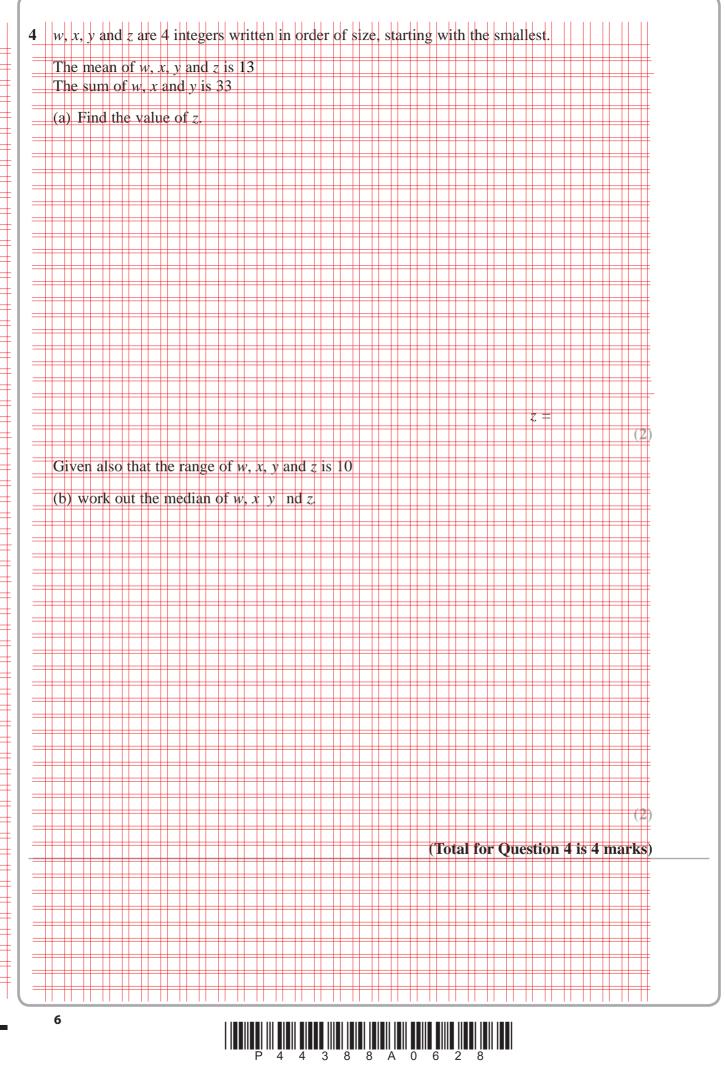






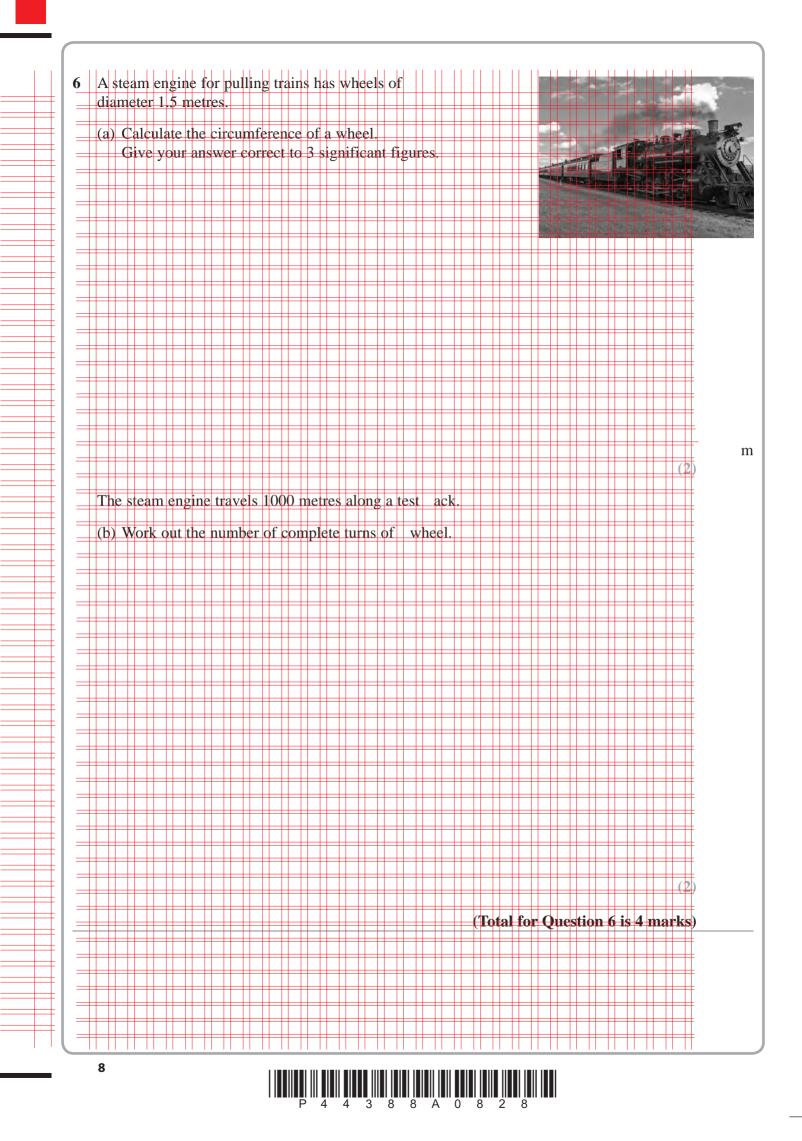
3	The first four terms of an arithmetic sequence are						
	5 9 13 17						
	(a) Write down an expression, in terms of <i>n</i> , for the <i>n</i> th term.						
	(2) (b) Write down on expression in terms of n for the $(n + 1)$ th term						
	(b) Write down an expression, in terms of n , for the $(n + 1)$ th term.						
	(1)						
_	(Total for Question 3 is 3 marks)						



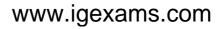


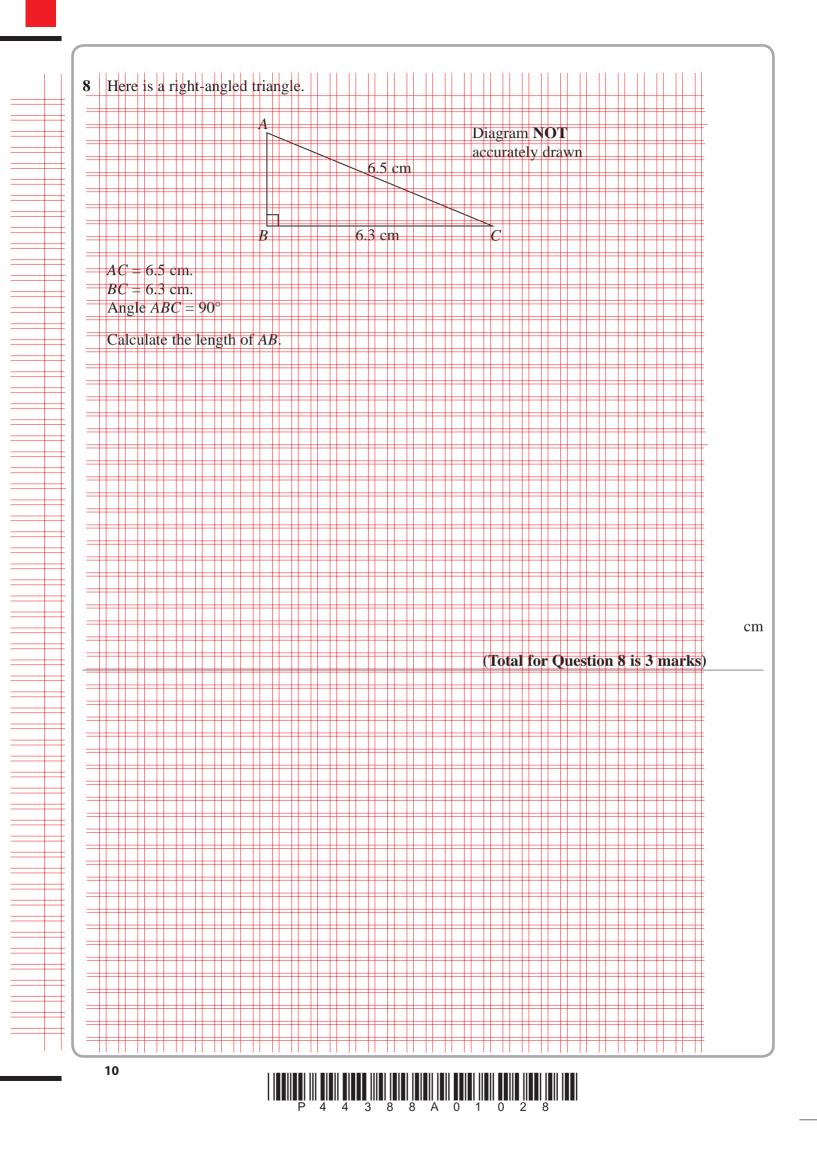
5	On 1st May 2012, the cost of 5.7 grams of gold was 15 960 rupees.		
	(a) Work out the cost, in rupees, of 4.6 grams of gold on the same day.		
			#11000 6
		(2)	rupees
	The cost of gold decreased by 7.5% from 1st May 2012 to 1st May 2013		
	(b) Work out the cost, in rupees, of 5.7 grams of gold on 1st May 2013		
			rupees
		(3)	
—	(Total for Question 5 is 5 ma	rks)	
			7
		Tui	n over 🕨

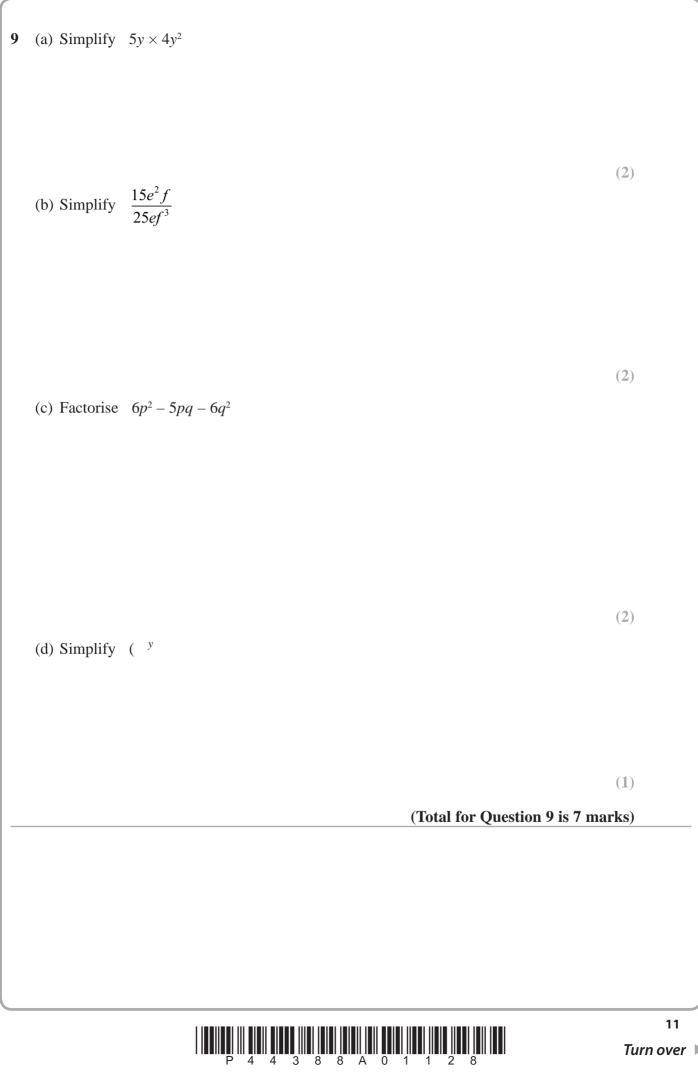
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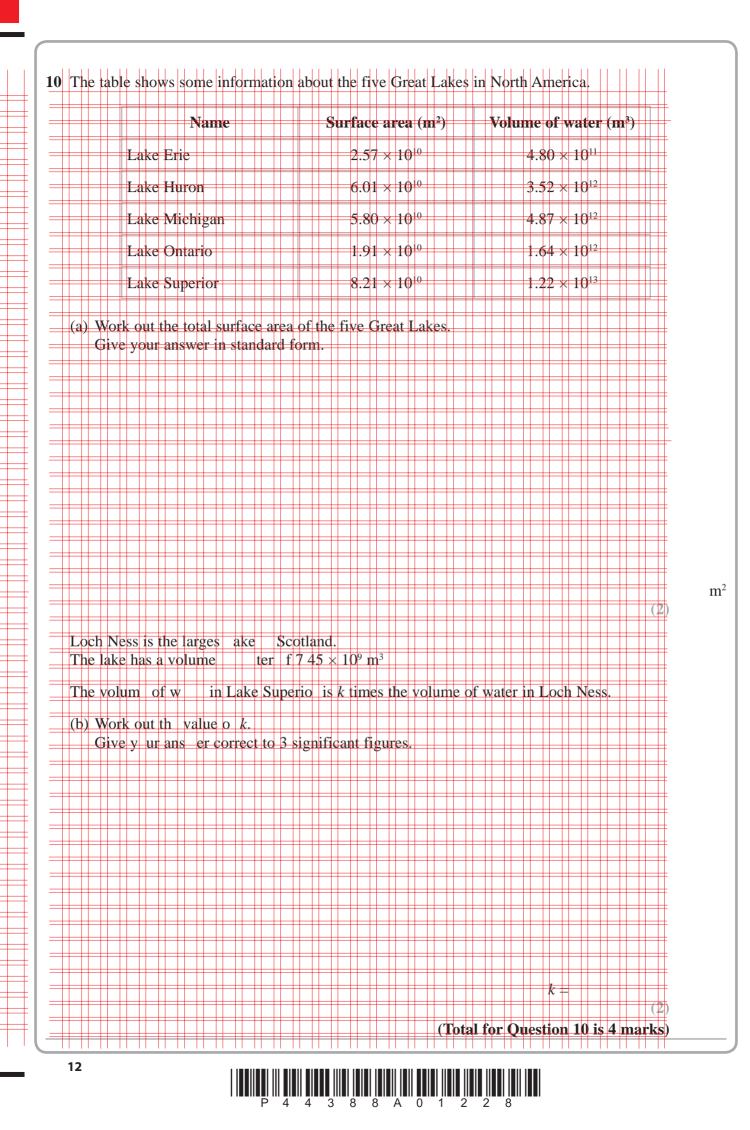


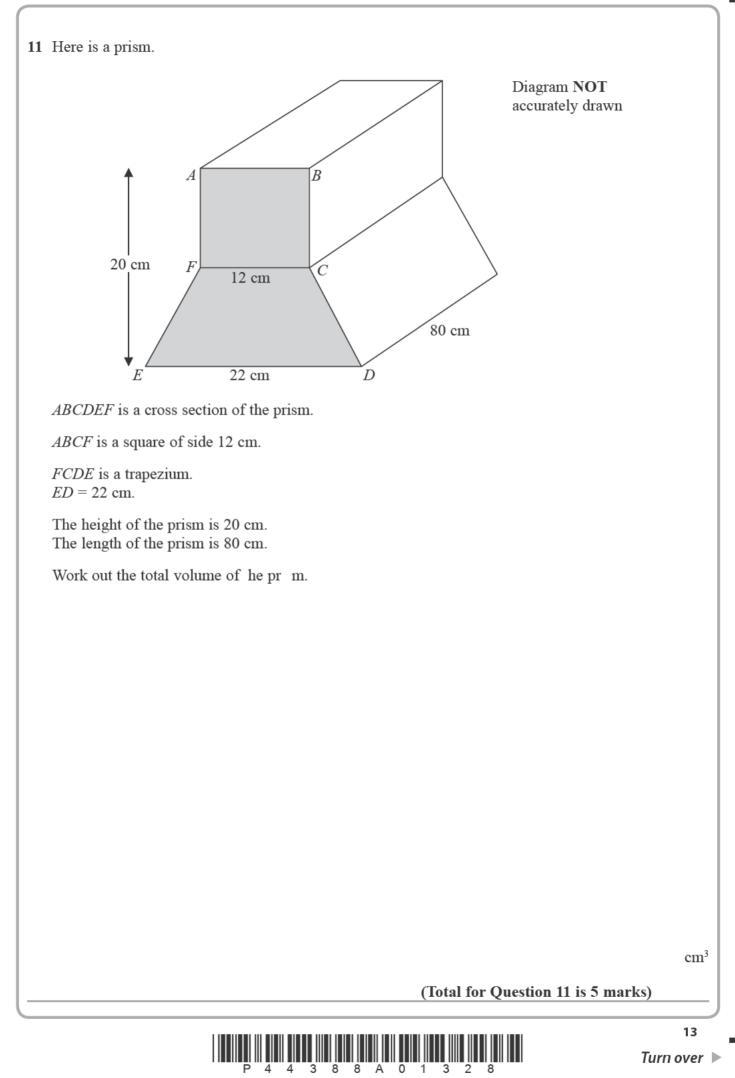
(2) When in Amsterdam, John uses his credit card to pay for a ring costing 850 euros. He has to pay a bank charge of £3.50 for using his credit card in addition to the cost of the ring. (b) Work out the total cost, in pounds (£), of the ring and the bank charge. £			
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(2) When in Amsterdam, John uses his credit card to pay for a ring costing 850 euros.	the ring.		
		(2)	euros
	(a) Change £450 to euros.		
(a) Change £450 to euros.	The exchange rate is $\pounds 1 = 1.16$ euros.		
The exchange rate is £1 = 1.16 euros. (a) Change £450 to euros.			

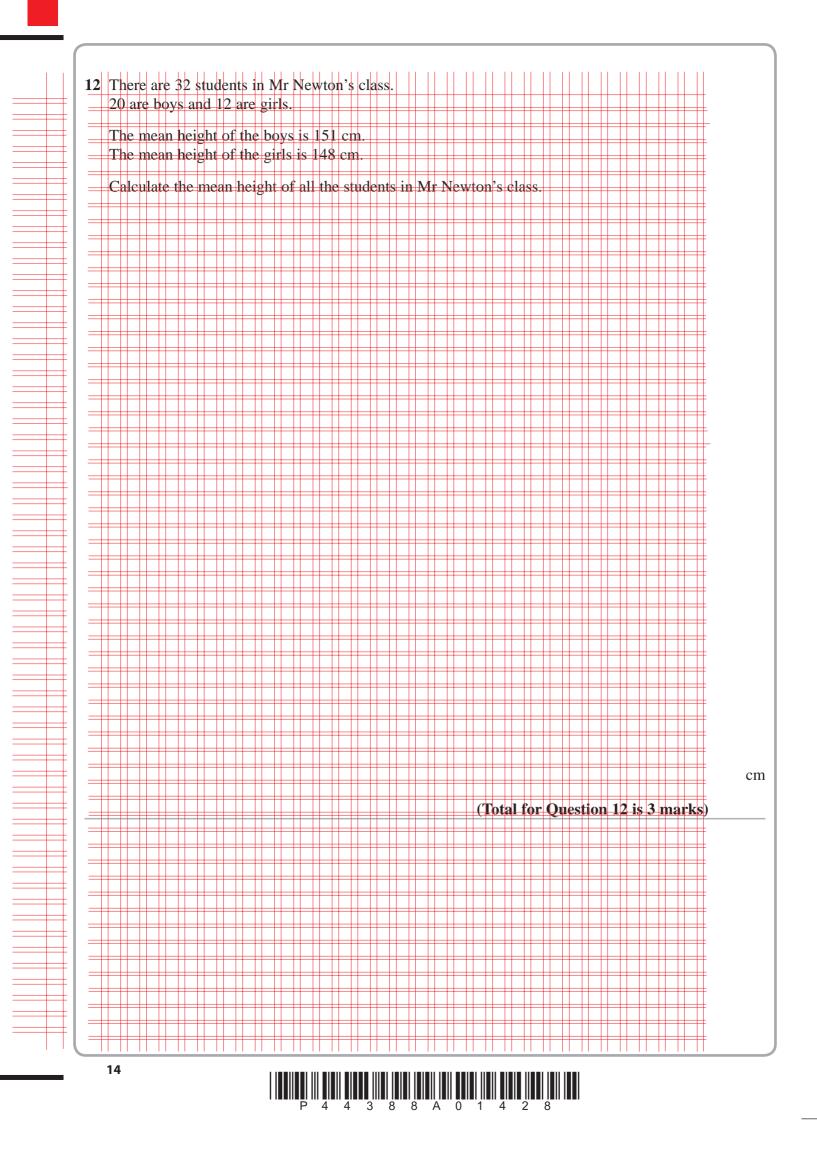












13 (a) Solve

3x + 3y = 9

4x + 2y = 13

Show clear algebraic working.

x =

y =

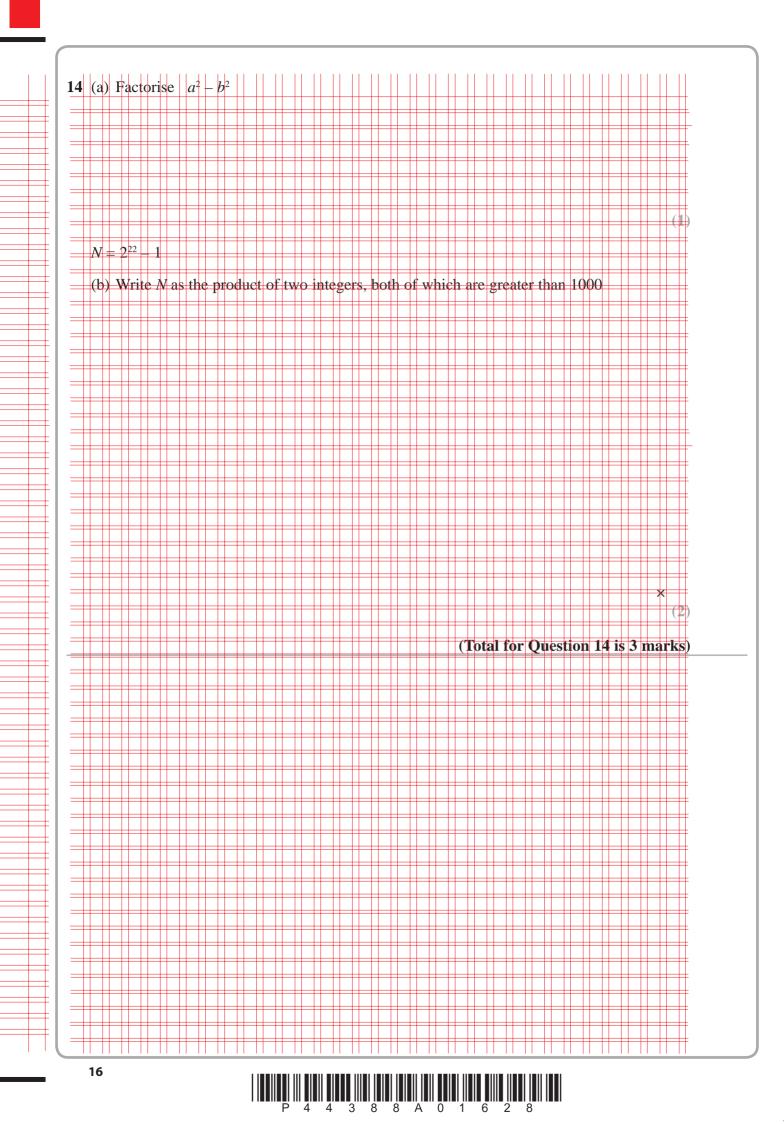
(4)

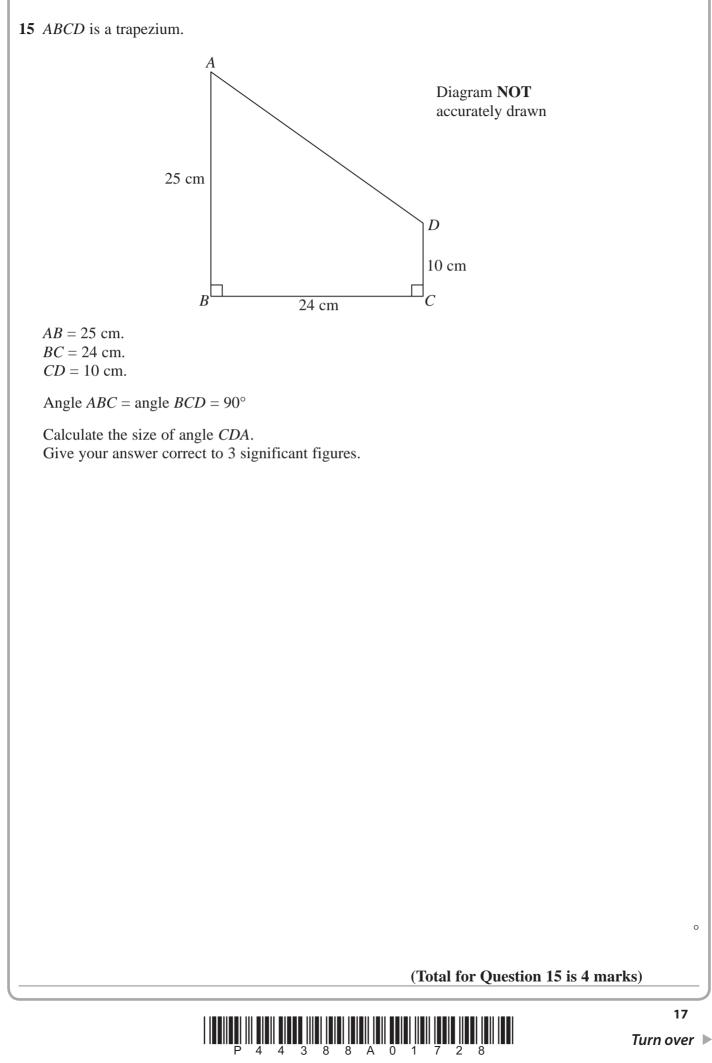
L is a line parallel to the line it equation 4x + 2y = 13
L passes ough the point the conditionates (3, -1)
(b) Find an equation the line L.

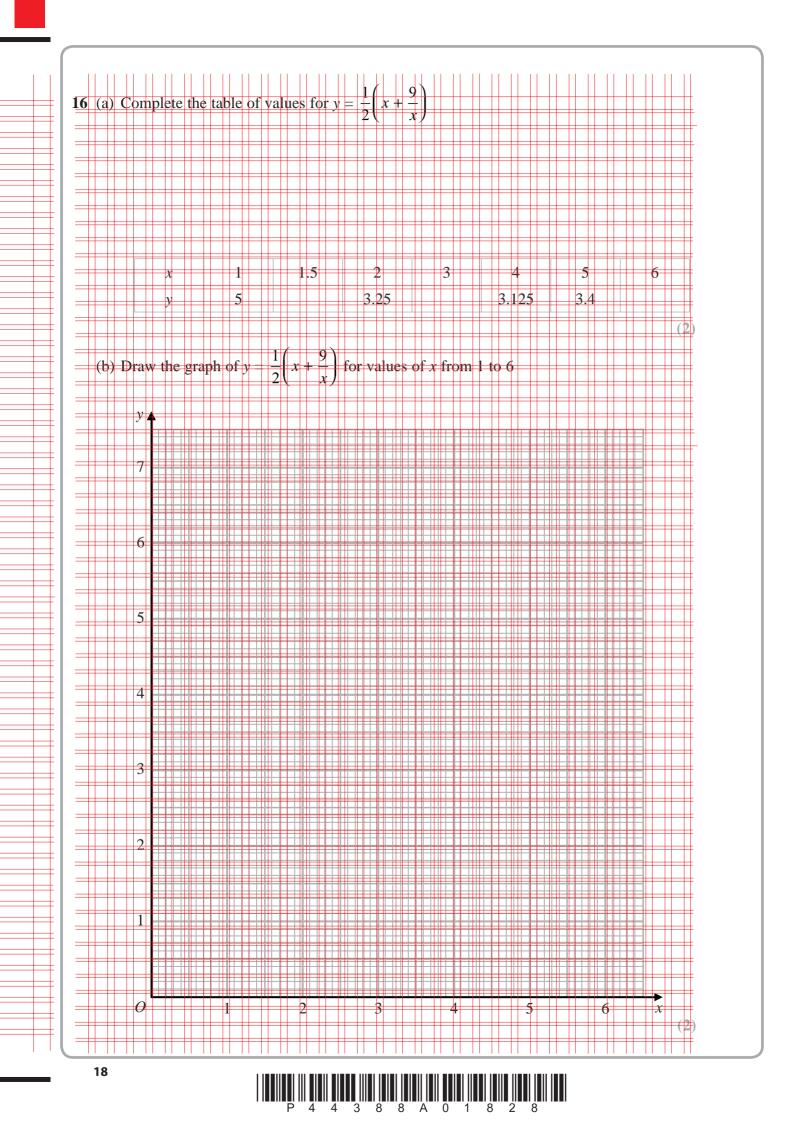
(3)

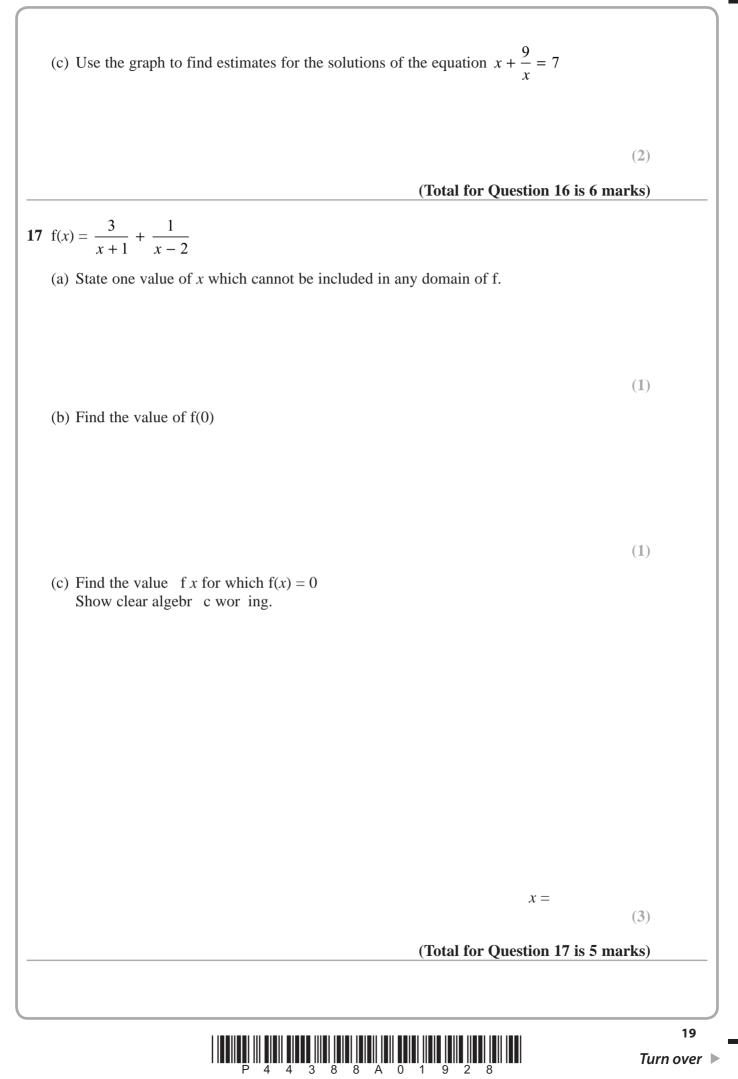
(Total for Question 13 is 7 marks)

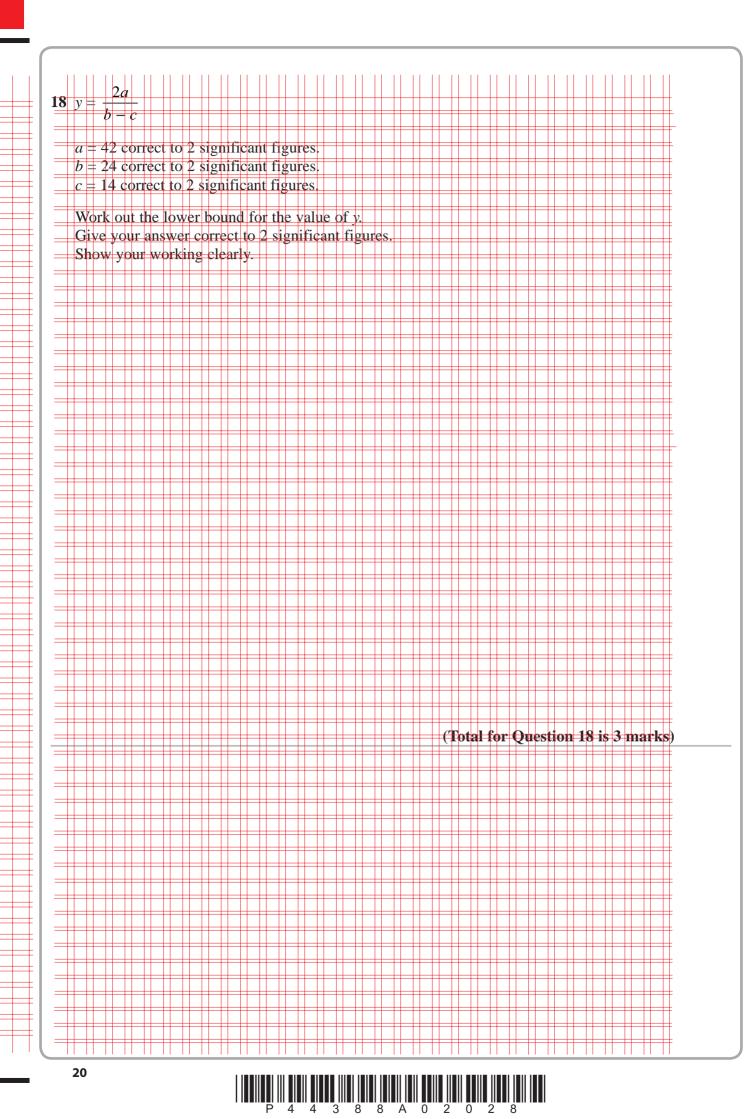










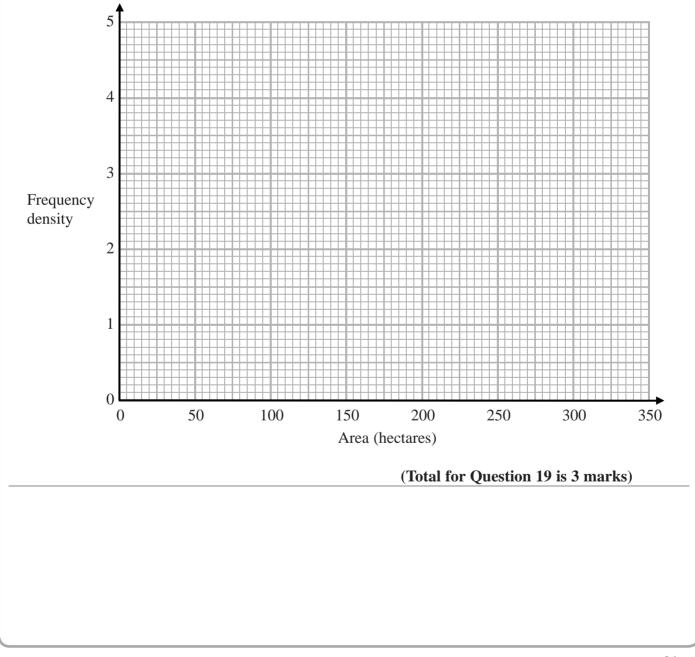


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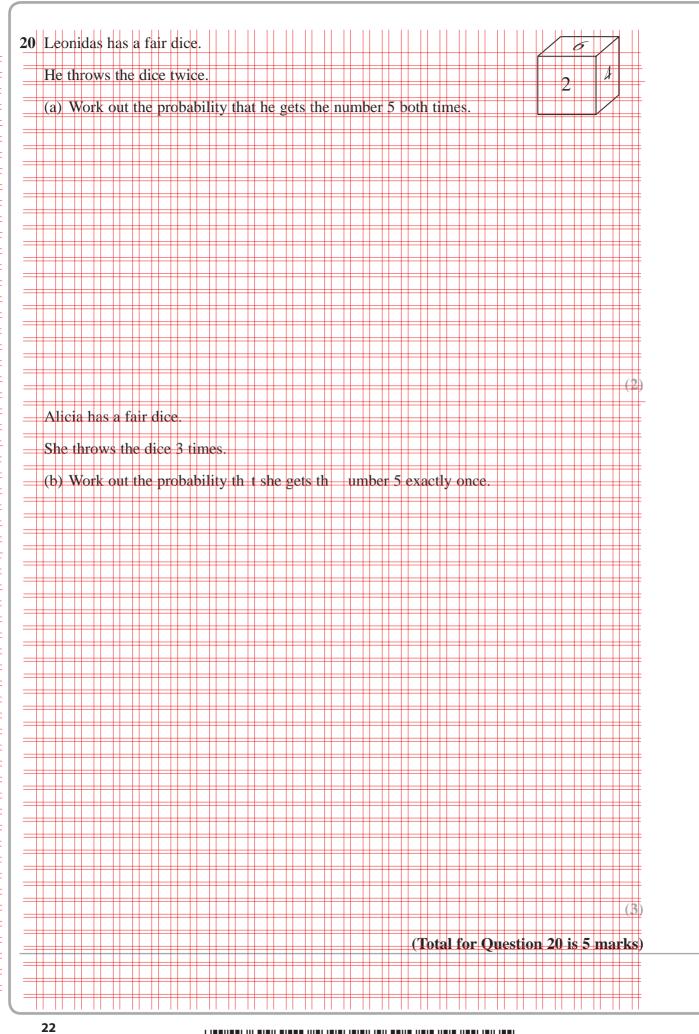
Area (A hectares)	Frequency
$0 < A \leqslant 20$	50
$20 < A \leqslant 50$	90
$50 < A \leqslant 100$	120
$100 < A \leqslant 300$	160

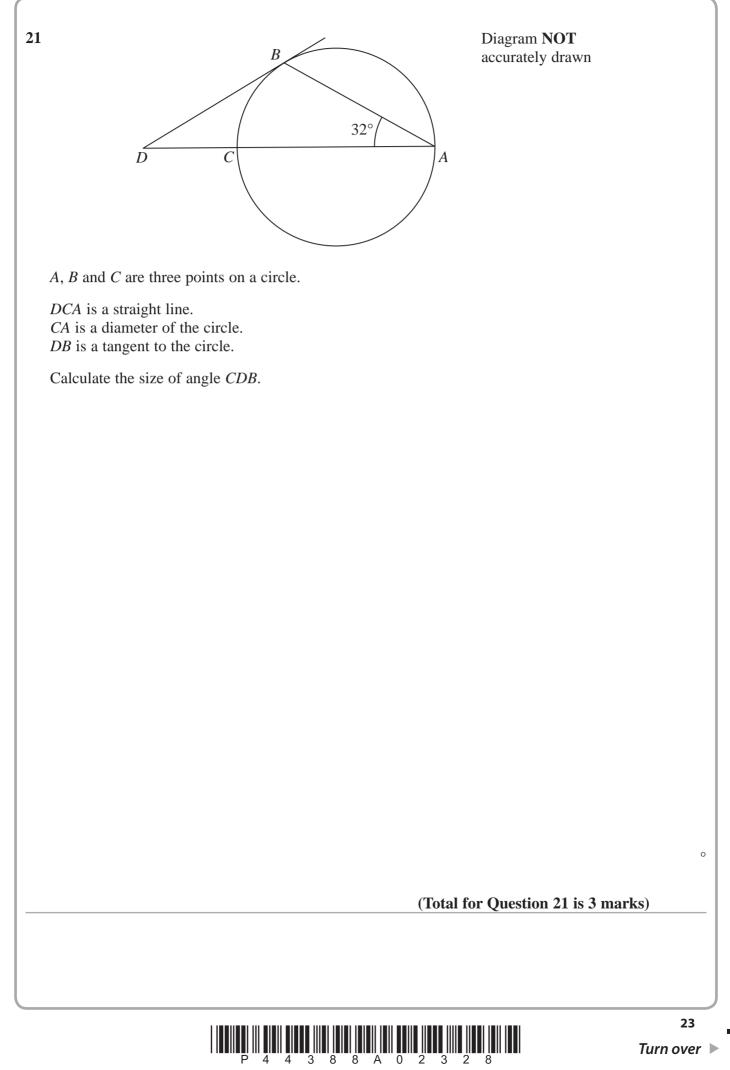
19 The table gives information about the areas of some farms in France.

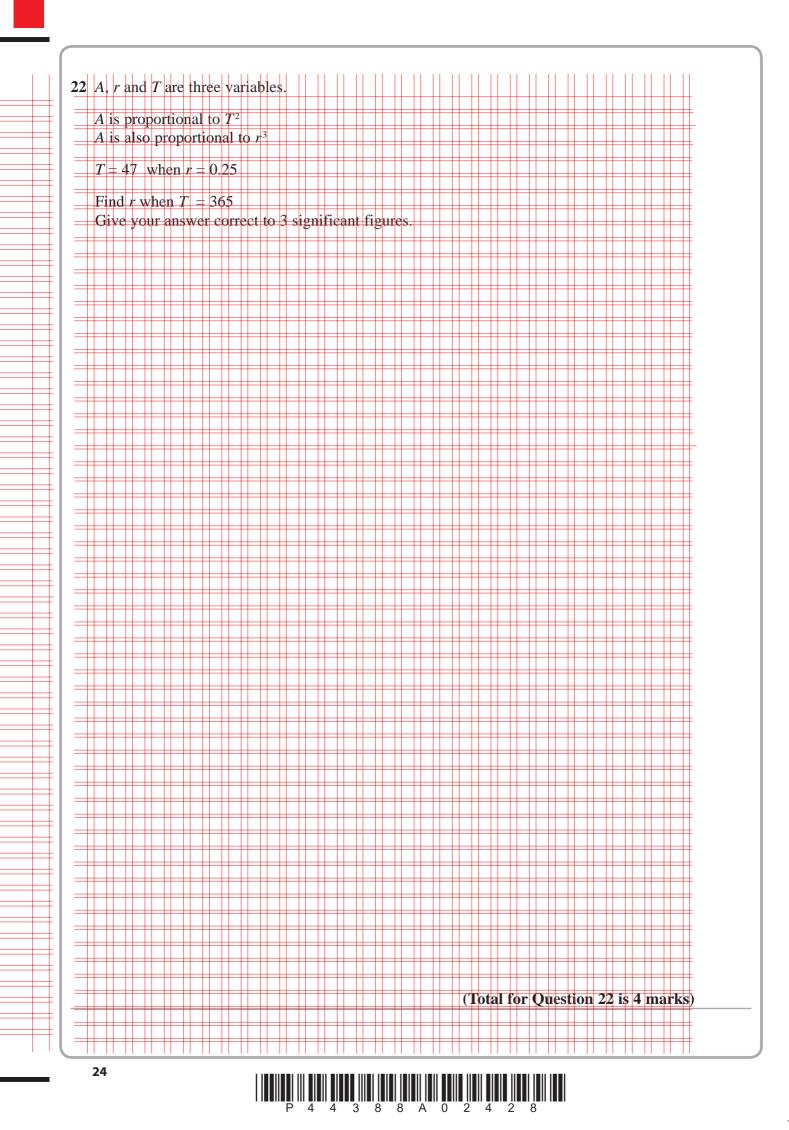
On the grid, draw a histogram to show this information.

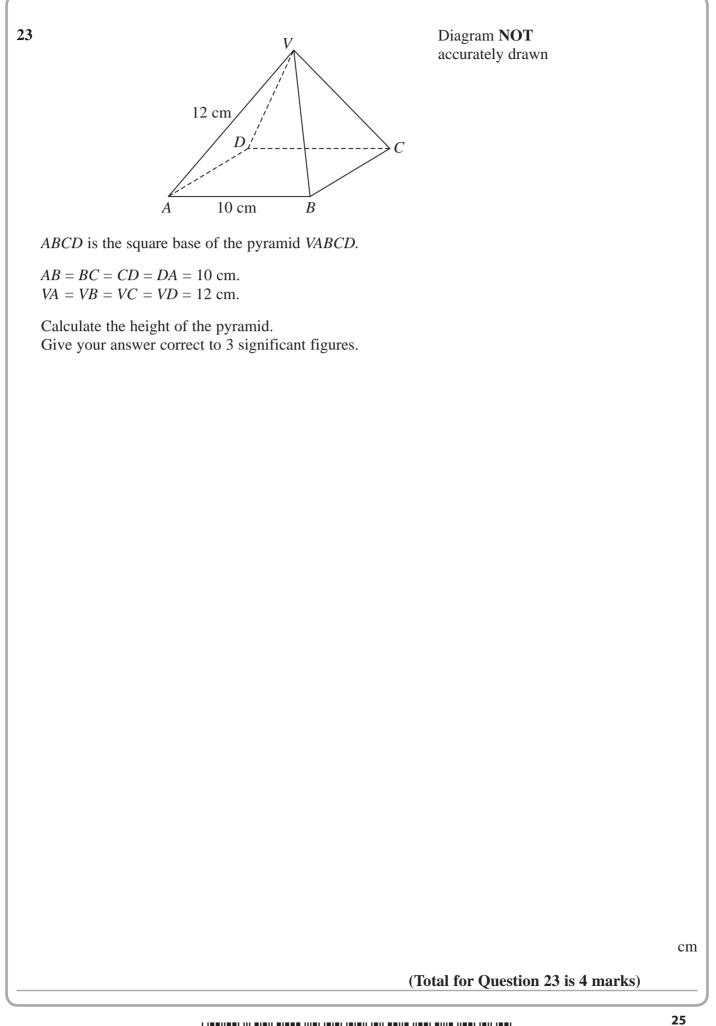




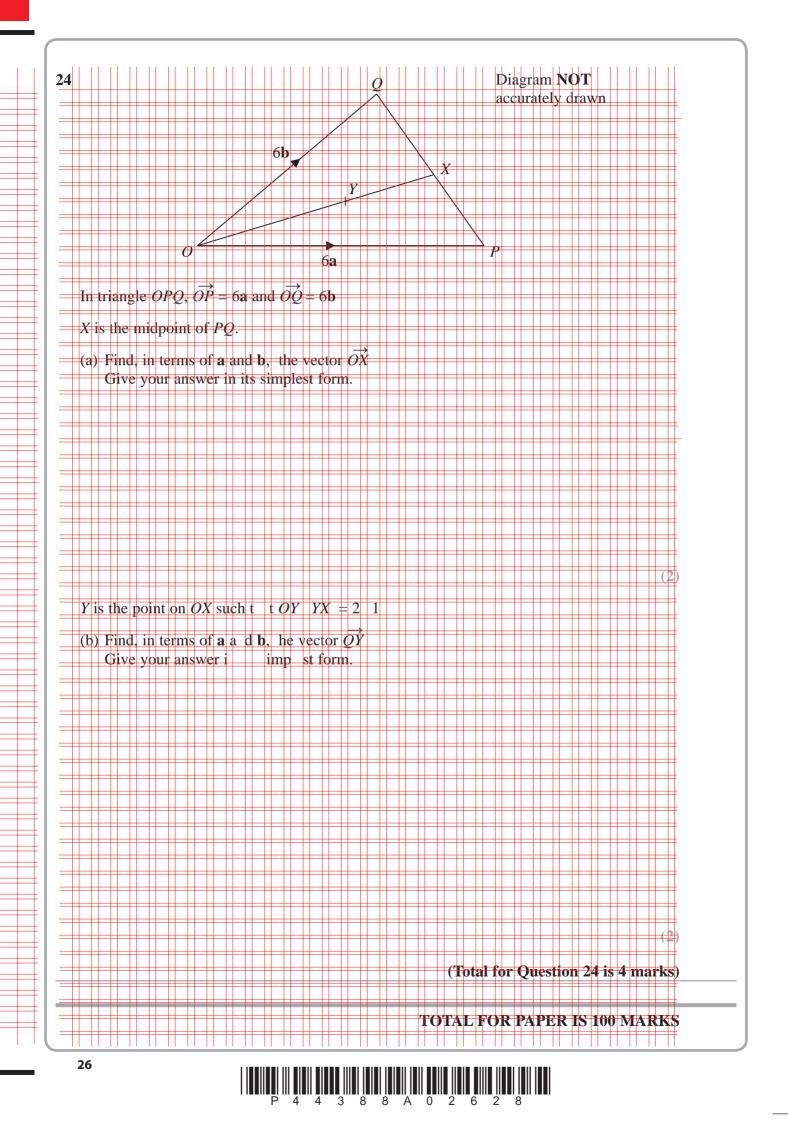












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